| Index of Cla | ims<br>                    | <b>Applica</b><br>09/518 |          | n/Control No.     | Applicant(s)/Patent under Reexamination |          |  |  |  |  |  |
|--------------|----------------------------|--------------------------|----------|-------------------|-----------------------------------------|----------|--|--|--|--|--|
|              |                            | Examir                   | ier      |                   | Art Unit                                |          |  |  |  |  |  |
|              | 18 AIIII 8 AII 1887        | Robert                   | М        | Pond              | 3625                                    |          |  |  |  |  |  |
| √ Rejected   | _ (Through numer Cancelled |                          | N        | Non-Elected       | 4                                       | Appeal   |  |  |  |  |  |
| = Allowed    | + Restricted               |                          | ı        | Interference      | C                                       | Objected |  |  |  |  |  |
| Claim Date   | Claim                      | Date                     | <b>-</b> | Claim             |                                         | Date     |  |  |  |  |  |
| al nal       | na la                      |                          |          | <u>a</u> <u>a</u> |                                         |          |  |  |  |  |  |

| Cli                                                                               | aim        |                                                  |          |                                                   | D        | ate                                               |         |         |              |       | Cla      | aim      |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | Date      | •        |          |                | CI    | aim        |          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | C        | ate      | ,         |          |                      |           |
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| Final                                                                             | Original   | 2/23/0                                           |          |                                                   |          |                                                   |         |         |              |       | Final    | Original |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |          |                | Final | Original   |          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |           |          |                      |           |
|                                                                                   | سلـ        |                                                  |          | 丁                                                 |          |                                                   |         |         |              |       |          | 51       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |          |                |       | 101        |          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          | 1        |           | 十        | 十                    | ٦         |
|                                                                                   | 2          | 2                                                |          | $\Box$                                            |          |                                                   | $\perp$ |         |              |       |          | 52       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           | $\Box$   |          |                |       | 102        |          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |           | $\Box$   |                      | ]         |
|                                                                                   | 3          | 4                                                | _        |                                                   | _        | _                                                 |         |         |              |       |          | 53       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |          |                |       | 103        |          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |           |          | $\perp$              | ]         |
|                                                                                   | 4          | $\Box$                                           | $\dashv$ |                                                   | _        |                                                   | _       |         | $oxed{oxed}$ |       |          | 54       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          | <u>'</u> |                |       | 104        | $\perp$  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          | Ц        |           | $\perp$  |                      |           |
|                                                                                   | 5          | 4                                                | _        | _                                                 | 4        | 4                                                 | _       | _       | ļ            |       |          | 55       | $\sqcup$      | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _            | Ш         |          |          |                |       | 105        | _        | 4                 | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _        | 4        | _         | $\perp$  | _                    | 4         |
|                                                                                   | 6          | Ш                                                | 4        |                                                   | _        | -  -                                              | 4       | 4-      | _            |       | <u> </u> | 56       | $\vdash$      | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\bot$       | Ш         |          | _        |                |       | 106        | _        | _                 | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _        | _        | _         | 4        | 4                    | 4         |
|                                                                                   | 7          | $\sqcup$                                         |          | _                                                 | 4        | _                                                 | +       |         | ⊢            |       |          | 57       | $\vdash$      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | $\sqcup$  |          | -        |                |       | 107        | _        | _                 | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | 4        | $\dashv$  | _        | $\bot$               | 4         |
|                                                                                   | 8          | H                                                | $\dashv$ | +                                                 | +        | +                                                 | +       |         | ┢            |       |          | 58       | $\vdash$      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | +            | Н         | -        |          | $\vdash$       |       | 108        |          | 4                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | -        | $\dashv$  | +        | +                    | 4         |
|                                                                                   | 9<br>10    | Н                                                | $\dashv$ | +                                                 | +        |                                                   | +       | +       | ┼            |       |          | 59<br>60 | $\vdash$      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | +            | $\vdash$  | +        |          | Н              |       | 109        |          | $\dashv$          | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\dashv$ | -        | $\dashv$  | +        | +                    | 4         |
|                                                                                   | 11         | 1                                                | -        | +                                                 | +        | +                                                 | +       | ╁       | $\vdash$     |       |          | 61       | $\vdash$      | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -            |           | +        | -        |                |       | 110<br>111 | $\dashv$ | $\dashv$          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -        |          | $\dashv$  | +        | +                    | $\dashv$  |
| $\vdash$                                                                          | 12         |                                                  | $\dashv$ | +                                                 | +        | ╁                                                 | +       | +       | $\vdash$     |       |          | 62       | $\vdash$      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | +            | $\vdash$  | +        | +        | $\vdash$       |       | 112        | $\dashv$ | $\dashv$          | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\dashv$ | $\dashv$ | -+        | +        | +                    | $\dashv$  |
| $\vdash$                                                                          | 18         | $\vdash$                                         | $\dashv$ | +                                                 | +        | +                                                 | +       | +       | -            |       |          | 63       | $\vdash$      | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +            | $\vdash$  | +        |          | $\vdash$       |       | 113        |          | $\dashv$          | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | +                    | $\dashv$  |
|                                                                                   | 1/4        | H                                                | $\dashv$ | ┰                                                 | $\dashv$ | +                                                 | +       | +       | T            |       | -        | 64       | $\vdash$      | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | +            | $\forall$ | +        | +        | $\vdash$       |       | 114        | $\dashv$ | $\dashv$          | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\dashv$ | $\dashv$ | $\dashv$  | +        | +                    | $\dashv$  |
| $\Box$                                                                            | 15         | $\sqcap$                                         | $\dashv$ | 十                                                 | $\top$   | $\dashv$                                          | $\top$  |         | T            |       |          | 65       | $\vdash$      | $\top$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | +            | $\vdash$  | $\top$   | +        | $\vdash$       | -     | 115        | $\dashv$ | $\dashv$          | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\dashv$ | 一        | +         | +        | +                    | $\forall$ |
|                                                                                   | 16         | П                                                | 寸        | _                                                 | $\neg$   | $\top$                                            | $\top$  | 1       | T            |       |          | 66       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1-           | $\Box$    | $\top$   | 1        |                |       | 116        | 寸        | $\dashv$          | $\neg$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 一        |          | 寸         | 十        | +                    | ┪         |
|                                                                                   | 17         |                                                  | T        |                                                   | T        |                                                   | 7       | 1       |              |       |          | 67       |               | İ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\top$       | $\Box$    |          |          |                |       | 117        | $\neg$   | 寸                 | 寸                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ヿ        |          | T         | 十        | $\top$               | ٦         |
|                                                                                   | 18         |                                                  |          |                                                   | T        |                                                   |         |         |              |       |          | 68       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1            |           |          |          |                |       | 118        | $\neg$   | ╅                 | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | $\neg$   | $\exists$ | 十        | $\top$               | ٦         |
|                                                                                   | 19         |                                                  |          |                                                   |          |                                                   |         |         |              |       |          | 69       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | П         |          |          |                |       | 119        |          |                   | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          | ╛         | 十        | $\top$               | ٦         |
|                                                                                   | 20         |                                                  |          | $\perp$                                           | $\perp$  |                                                   |         |         |              |       |          | 70       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |          |                |       | 120        |          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | •        |          | T         |          | $\top$               | ٦         |
|                                                                                   | 21         | Ш                                                |          |                                                   |          |                                                   |         |         |              |       |          | 71       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |          |                |       | 121        |          |                   | $\overline{\cdot}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |           |          | П                    | 7         |
| <u></u>                                                                           | 22         | Ш                                                | 4        |                                                   | _        | $\perp$                                           | $\perp$ | $\perp$ | <u> </u>     |       |          | 72       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | Ш         |          |          |                |       | 122        |          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |           |          |                      |           |
| لــــــا                                                                          | 23         |                                                  | _        | _                                                 | $\perp$  | $\perp$                                           | $\perp$ |         | _            |       |          | 73       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | Ш         |          | $\perp$  |                |       | 123        |          | ·                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |           |          |                      |           |
| igsquare                                                                          | 24         | $\sqcup$                                         | 4        | 4                                                 | 4        | 4                                                 | 4       |         |              |       |          | 74       | $\sqcup$      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u> </u>     | Ш         | _        |          |                |       | 124        |          | _                 | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |          |           | $\bot$   |                      | _         |
|                                                                                   | 25         |                                                  | _        | +                                                 | $\perp$  | $\perp$                                           | _       | .       |              |       |          | 75       | $\perp$       | $\perp$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ↓_           | $\sqcup$  |          |          |                |       | 125        |          |                   | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _        | _        | _         | _        | 4                    | _         |
| $\vdash$                                                                          | 26         | $\vdash$                                         | -        | +                                                 | +        | +                                                 | +       |         |              |       |          | 76       | $\perp$       | $\perp$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ╄            | $\vdash$  | _        | $\bot$   |                |       | 126        | _        | $\dashv$          | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | _        | _         | 4        | _                    | 4         |
| $\vdash$                                                                          | 27<br>28   | Н                                                |          | +                                                 | +        | +                                                 | +-      | +       | H            |       |          | 77       | $\rightarrow$ | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +            |           | -        | -        | Н              |       | 127        | -        | $\dashv$          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | $\dashv$ | -         | +        | +                    | 4         |
| <del>                                     </del>                                  | 29         | <del>                                     </del> | $\dashv$ | +                                                 | +        | +                                                 | +-      | -       | -            |       |          | 78<br>79 | $\dashv$      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +            | $\vdash$  | -        | -        | Н              |       | 128        | _        | $\dashv$          | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -        |          | -         | +        | +                    | 4         |
| $\vdash\vdash\vdash$                                                              | 30         | Н                                                | +        |                                                   | +        | +                                                 | +       | +-      |              |       | -        | 80       | -             | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +            | $\vdash$  |          |          | Н              |       | 129<br>130 | -        | $\dashv$          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | -        | +         | +        | +                    | $\dashv$  |
|                                                                                   | 31         | Н                                                | +        | +                                                 | +        | +                                                 | +       | +       | H            |       |          | 81       |               | +-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ╁╌           | -         | _        | +        | Н              |       | 131        | -        | $\dashv$          | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\dashv$ | -+       | -         | +        | +                    | $\dashv$  |
|                                                                                   | 32         | $\vdash$                                         | _        | $\top$                                            | +        | +                                                 | +       | +       |              |       |          | 82       |               | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +            | $\vdash$  | +        | +        | Н              |       | 132        | $\dashv$ | $\dashv$          | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\dashv$ | $\dashv$ | -         | +        |                      | $\dashv$  |
|                                                                                   | 33         | H                                                | 7        | +                                                 | $\top$   | $\top$                                            | ╅       | 十       |              |       |          | 83       |               | ╅                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +            | ╌┼        |          | +        | Н              |       | 133        | -        | $\dashv$          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\dashv$ | $\dashv$ |           | +        | +                    | $\dashv$  |
|                                                                                   | 34         | П                                                | 寸        | $\top$                                            | $\top$   | $\top$                                            | 1       |         |              |       |          | 84       | $\dashv$      | $\top$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | T            | $\vdash$  | 7        | $\top$   | П              |       | 134        | $\dashv$ | $\dashv$          | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -+       | $\dashv$ | $\dashv$  | $\dashv$ | +                    | $\dashv$  |
|                                                                                   | 35         | П                                                | $\top$   | 十                                                 | $\top$   | $\top$                                            | $\top$  | Т       |              |       |          | 85       |               | $\top$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>†</b>     | $\sqcap$  | $\dashv$ | $\top$   | П              |       | 135        | 7        | $\dashv$          | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _        | $\dashv$ | 7         | $\top$   | $\dashv$             | ٦         |
|                                                                                   | _36        |                                                  |          |                                                   |          |                                                   |         | T       |              |       |          | 86       |               | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $\top$       | П         | 7        | $\top$   | П              |       | 136        | ヿ        | $\dashv$          | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\dashv$ | _        | $\dashv$  | $\dashv$ | $\dashv$             | $\dashv$  |
|                                                                                   | 37         |                                                  |          |                                                   |          |                                                   |         |         |              |       |          | 87       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | T            | П         | T        | 1        | П              |       | 137        | _        | $\dashv$          | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\dashv$ | $\dashv$ |           | $\top$   | 十                    | ٦         |
|                                                                                   | 38         |                                                  |          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |          |                                                   | I       |         |              |       |          | 88       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |          |                |       | 138        |          | _                 | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |          | 寸         | 十        | ヿ                    | 7         |
|                                                                                   | 39         |                                                  | $\Box$   |                                                   | $\perp$  | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |         |         |              |       |          | 89       |               | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}$ | $\Box$       |           |          |          |                |       | 139        |          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          | _†        | 丁        |                      | ٦         |
| Щ                                                                                 | 40         | LĪ                                               |          | $\perp$                                           | $\perp$  |                                                   | $\Box$  |         |              |       |          | 90       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |          |                |       | 140        | $\Box$   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          | _T       |           | $\Box$   | J                    | _         |
| $oxed{oxed}$                                                                      | 41         | Ш                                                | $\perp$  | _ _                                               | $\perp$  |                                                   |         |         | Ш            |       |          | 91       | $\Box$        | $\bot$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\perp$      | Ш         |          |          |                |       | 141        |          |                   | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}}$ |          |          |           | I        | I                    |           |
| igsqcup                                                                           | 42         | $\sqcup$                                         | _        | _                                                 | $\perp$  | $\perp$                                           | $\perp$ | 1       | L.           |       | L        | 92       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\perp$      | $\Box$    | $\bot$   |          |                |       | 142        | $\Box$   | $\Box$            | I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\Box$   | $\Box$   |           |          |                      |           |
| $\vdash \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$ | 43         | $\sqcup$                                         | $\dashv$ | $\bot$                                            | 4        | _                                                 | 4       | _       | Ш            |       | <u> </u> | 93       | $\perp$       | $\perp$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\perp$      | Ш         |          |          | Ш              |       | 143        |          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | _[       | $\perp$  | _[        | $\perp$  |                      | ╛         |
| $\vdash \vdash \vdash$                                                            | 44         | $\vdash$                                         | $\dashv$ | _                                                 | -        | $\perp$                                           | 4-      | 4       | $\vdash$     |       | $\vdash$ | 94       |               | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ↓_           | $\sqcup$  | 4-       |          |                |       | 144        | _        | $\perp$           | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _        | _        | $\perp$   | $\perp$  | $\perp$              | ╛         |
| ├——                                                                               | 45         | $\vdash \vdash$                                  | +        | +                                                 | +        | +                                                 | +       | -       | Н            |       | ļ        | 95       | $\dashv$      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\vdash$     | $\sqcup$  |          | 4        | Щ              |       | 145        | _        | 4                 | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | _        | _         | $\bot$   | 丄                    | _         |
|                                                                                   | 46         | $\vdash$                                         | +        | -                                                 | +        | +                                                 | +       | +-      | -            |       | <u> </u> | 96       |               | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del> </del> |           | $\perp$  | 4        | Ш              |       | 146        | _        | $\perp$           | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4        | _        | _         | 4        | +                    | ↲         |
| <del>  </del>                                                                     | 47         | $\vdash \vdash$                                  | $\dashv$ | +                                                 | +        | +                                                 | +       | +-      | Н            |       | <u> </u> | 97       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | +            |           | -        | +        | $\vdash$       |       | 147        | 4        | _                 | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | _        |          | 4         | 4        | +                    | 4         |
| ┝─┤                                                                               | 48<br>49   | $\vdash$                                         | +        | +                                                 | +        | -                                                 | +       | ┿       | $\vdash$     |       | <b> </b> | 98<br>99 | $\dashv$      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | +            | $\vdash$  | +        |          | $\vdash$       | <br>  | 148        | $\dashv$ | -                 | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\dashv$ | -        | $\dashv$  | +        | +                    | 4         |
| $\vdash \vdash \vdash$                                                            | 50         | $\vdash$                                         | +        | +                                                 | +        | +                                                 | +       | +       | $\vdash$     |       |          | 100      | $\dashv$      | +-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | +            |           | +        | +        | $\vdash\vdash$ |       | 149        | $\dashv$ | -+                | $\dashv$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\dashv$ | -        | $\dashv$  | +        | +                    | 4         |
|                                                                                   | <b>5</b> 0 | Щ                                                |          |                                                   |          |                                                   |         |         | لــــا       | ::::: | ∟ا       | 100      | LL            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | ш         |          |          | ╜              | <br>  | 150        |          | $oldsymbol{\bot}$ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          | _1       |           |          | $\perp \!\!\! \perp$ |           |